

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\  
 Data File : VN058312.D  
 Acq On : 23 Sep 2019 23:17  
 Operator : JC/SP  
 Sample : K5002-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S49-0514

Quant Time: Sep 24 09:09:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 446480   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 721809   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 587236   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 216521   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.01   | 65  | 322344   | 51.84 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.68% |      |
| 35) Dibromofluoromethane    | 7.58   | 113 | 224569   | 51.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.36% |      |
| 50) Toluene-d8              | 10.09  | 98  | 889016   | 52.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.00% |      |
| 62) 4-Bromofluorobenzene    | 12.41  | 95  | 264445   | 41.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 83.28%  |      |

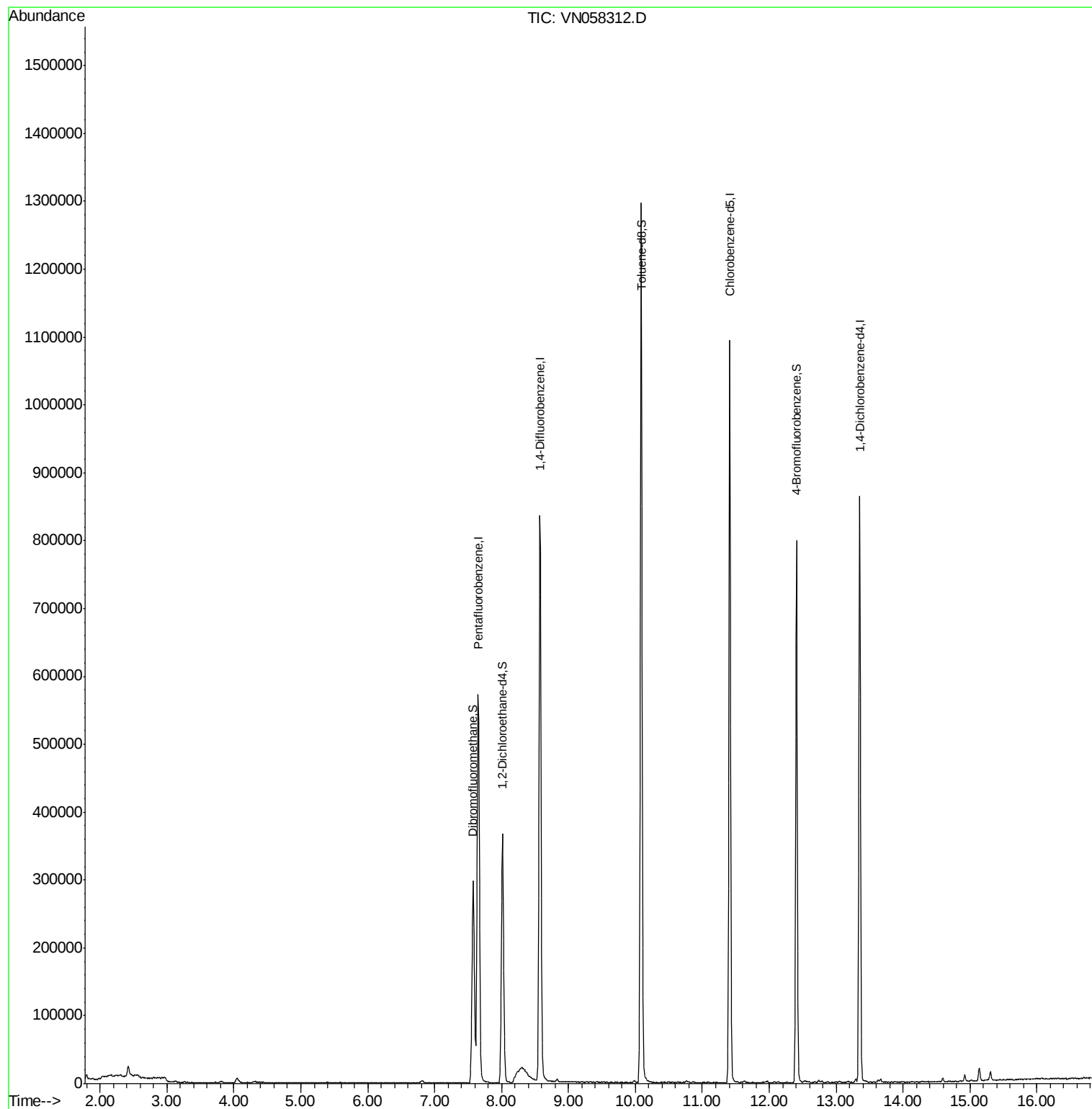
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058312.D

Acq: 23 Sep 2019 23:17

Instrument :

MSVOA\_N

ClientSampleId :

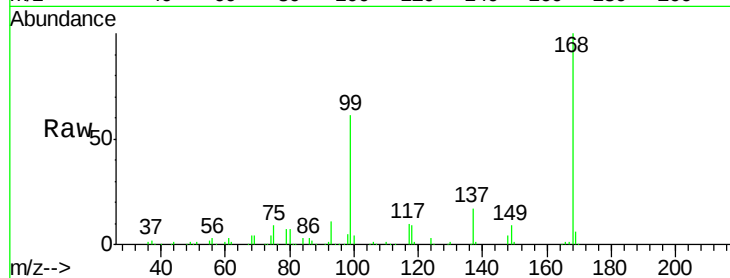
S49-0514

Tot Ion:168 Resp: 446480

Ion Ratio Lower Upper

168 100

99 61.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

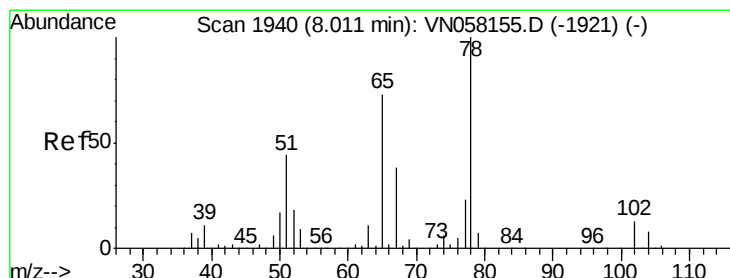
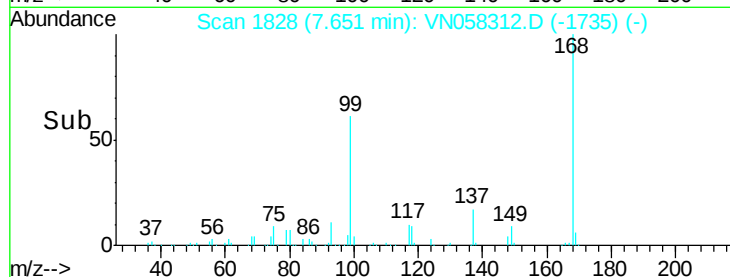
150000

100000

50000

0

Time--> 7.50 7.65 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 51.836 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058312.D

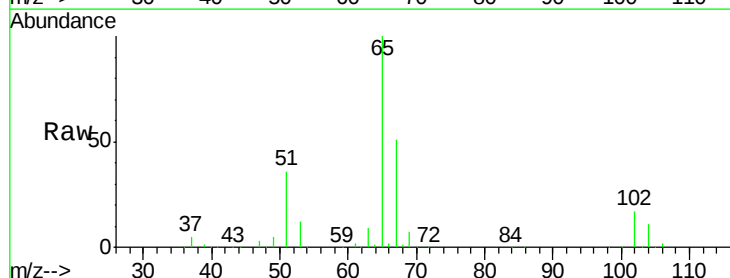
Acq: 23 Sep 2019 23:17

Tgt Ion: 65 Resp: 322344

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.01

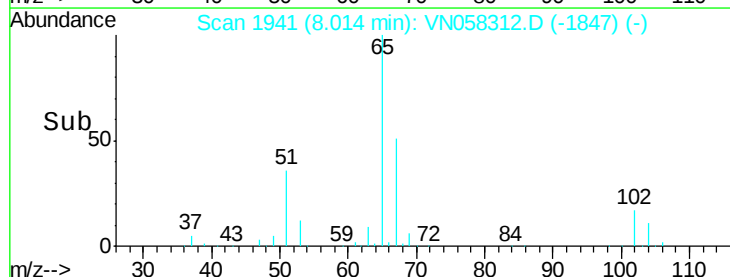
150000

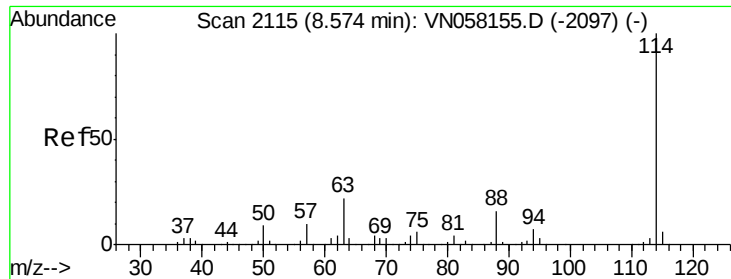
100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN058312.D

Acq: 23 Sep 2019 23:17

Instrument :

MSVOA\_N

ClientSampleId :

S49-0514

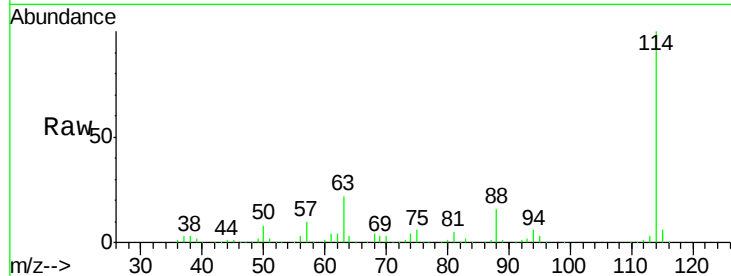
Tot Ion:114 Resp: 721809

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.2

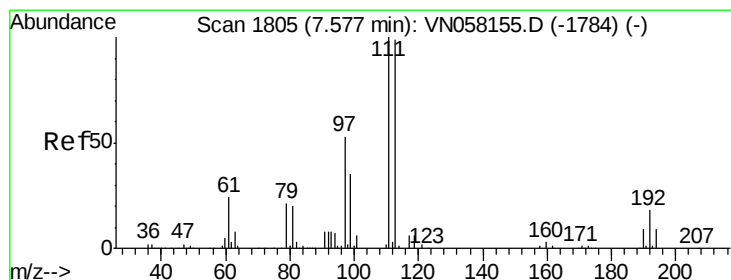
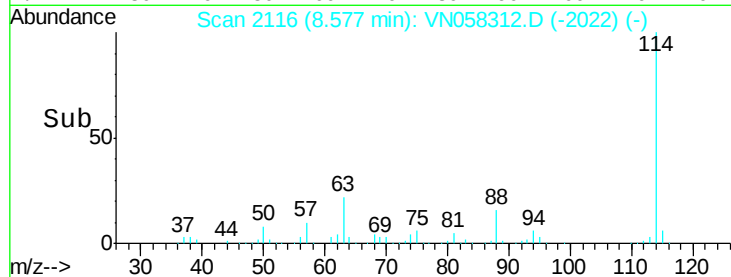
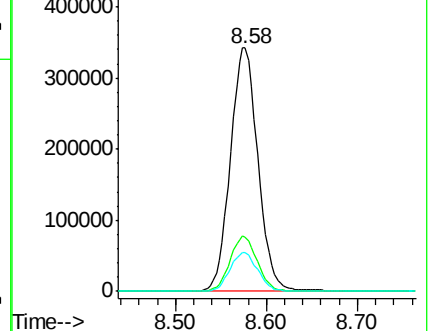
88 15.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 51.178 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058312.D

Acq: 23 Sep 2019 23:17

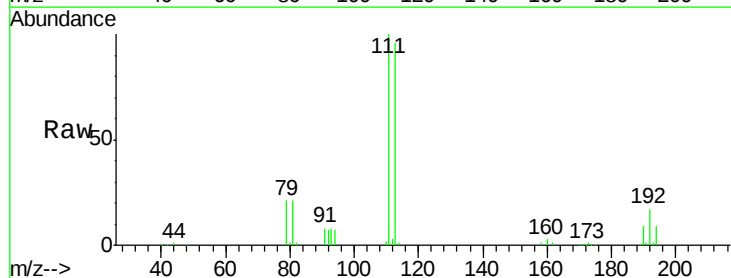
Tgt Ion:113 Resp: 224569

Ion Ratio Lower Upper

113 100

111 103.7 81.8 122.6

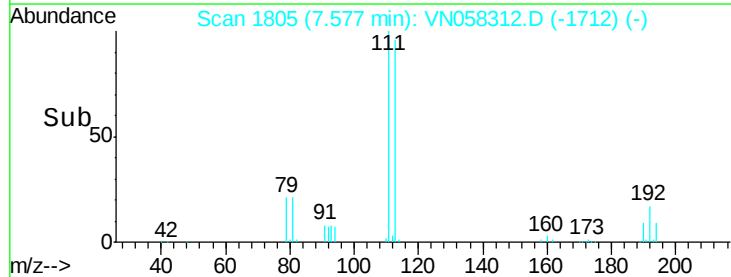
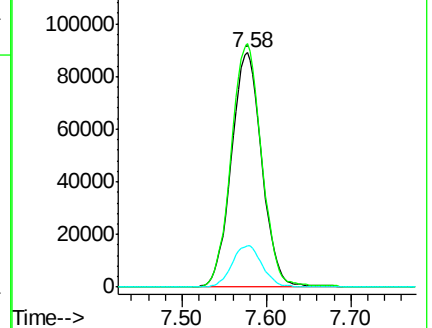
192 17.4 14.5 21.7

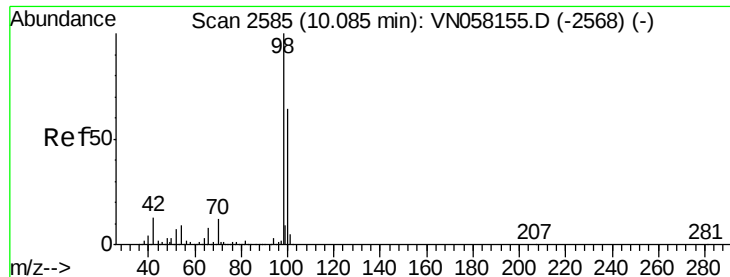


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 52.000 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058312.D

Acq: 23 Sep 2019 23:17

Instrument :

MSVOA\_N

ClientSampled :

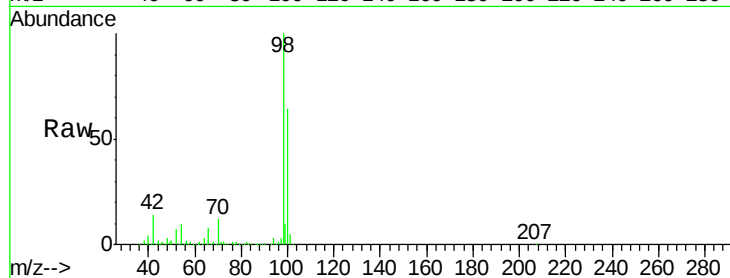
S49-0514

Tot Ion: 98 Resp: 889016

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058155.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058155.D (-2568) (-)

10.09

500000

400000

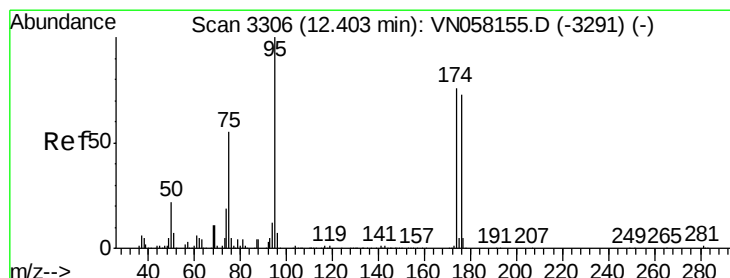
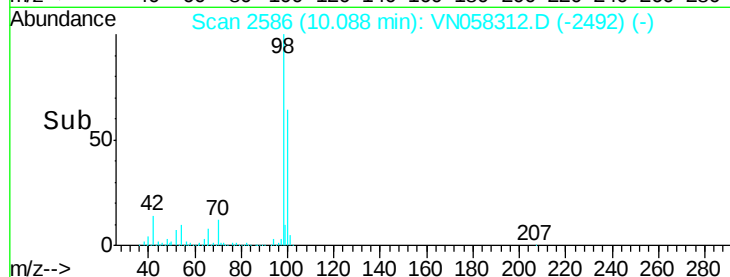
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.640 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058312.D

Acq: 23 Sep 2019 23:17

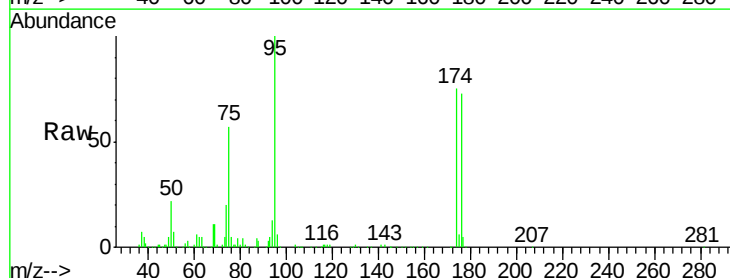
Tgt Ion: 95 Resp: 264445

Ion Ratio Lower Upper

95 100

174 75.5 0.0 152.2

176 73.4 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41

200000

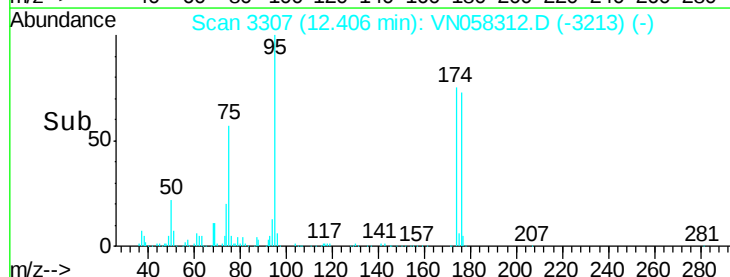
150000

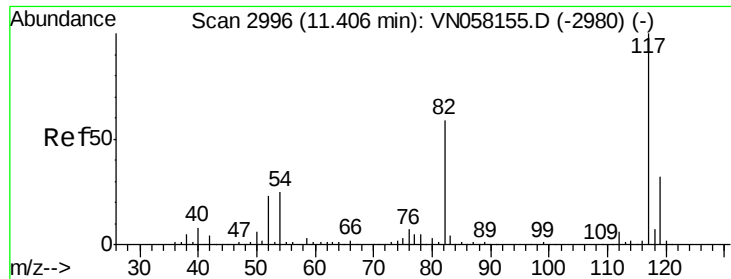
100000

50000

0

Time-->

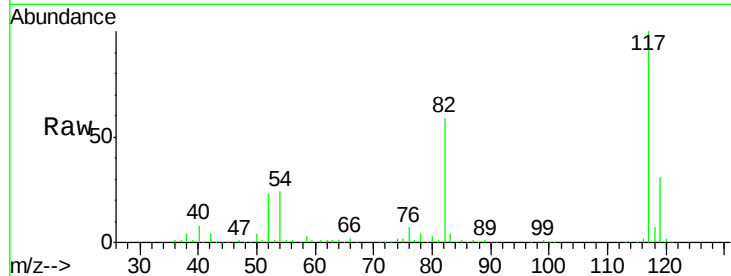




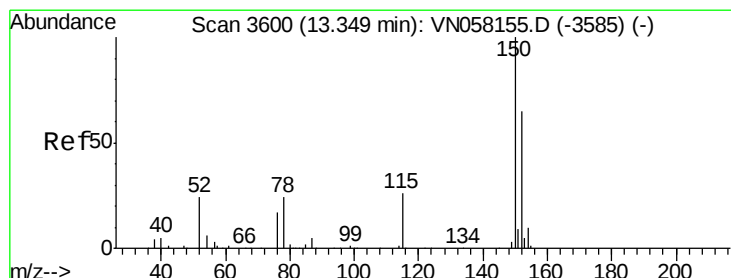
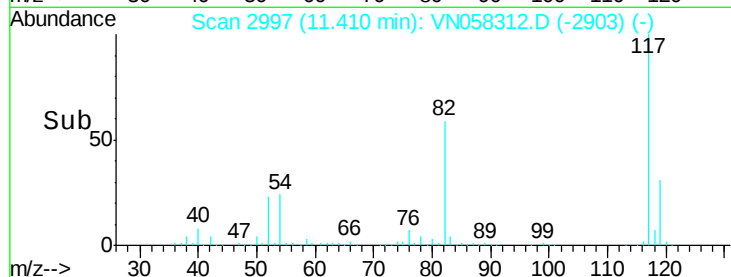
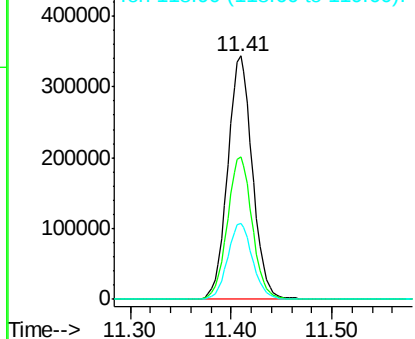
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN058312.D  
Acq: 23 Sep 2019 23:17

Instrument :  
MSVOA\_N  
ClientSampled :  
S49-0514

Tot Ion:117 Resp: 587236  
Ion Ratio Lower Upper  
117 100  
82 58.5 46.9 70.3  
119 31.2 25.3 37.9

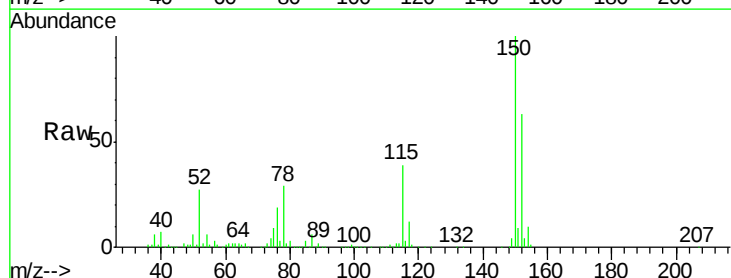


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN058312.D  
Acq: 23 Sep 2019 23:17

Tgt Ion:152 Resp: 216521  
Ion Ratio Lower Upper  
152 100  
115 62.0 30.1 90.3  
150 157.8 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

